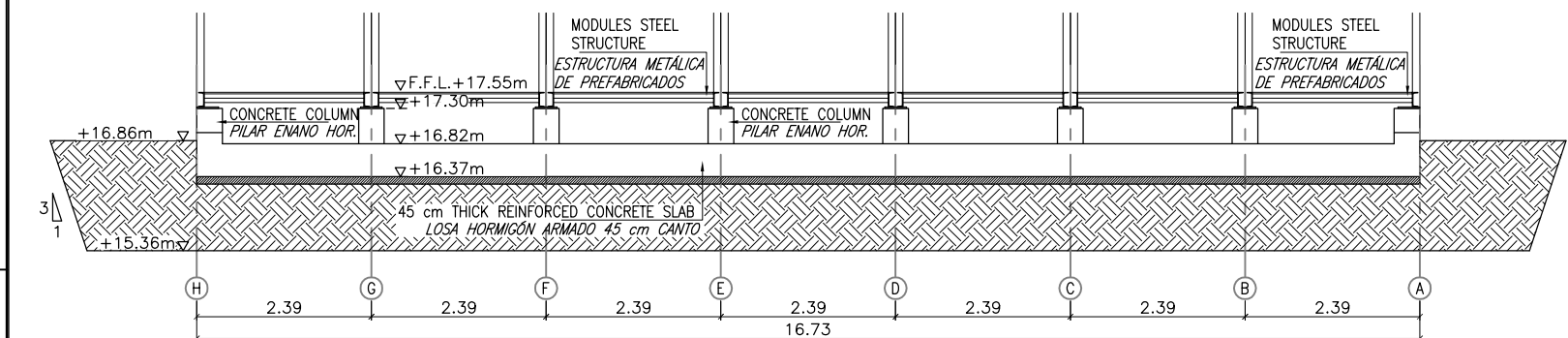
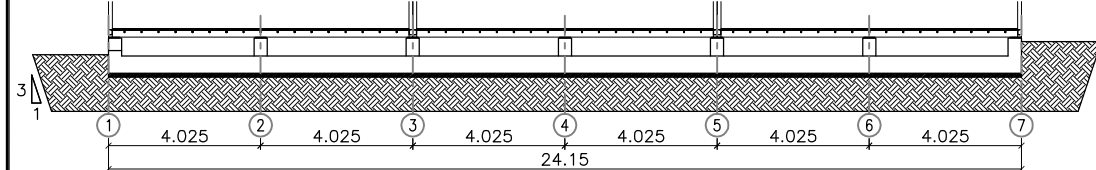


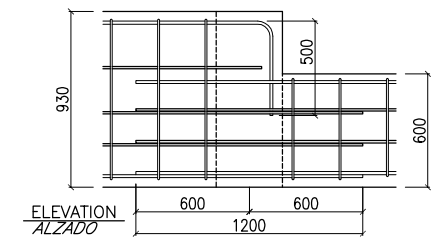
FOUNDATION
CIMENTACIÓN
 SCALE 1 : 100
 ESCALA



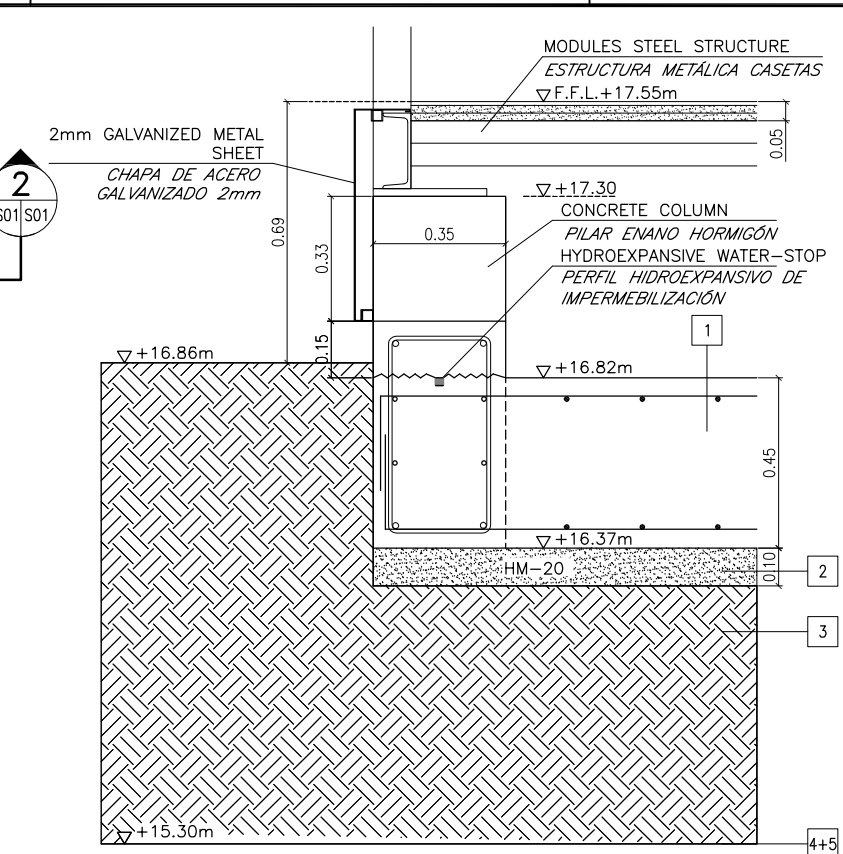
CROSS SECTION #1
SECCIÓN TRANSVERSAL #1
 SCALE 1 : 50
 ESCALA



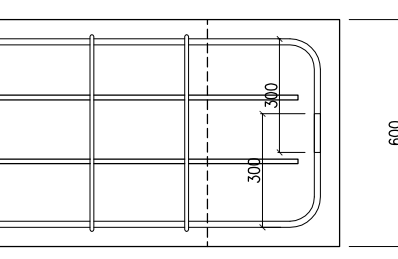
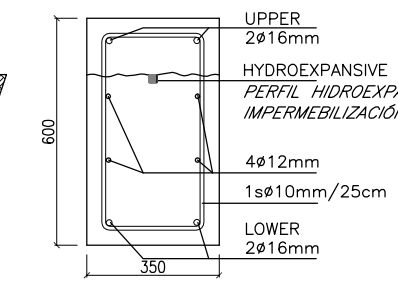
CROSS SECTION #2
SECCIÓN TRANSVERSAL #2
 SCALE 1 : 100
 ESCALA



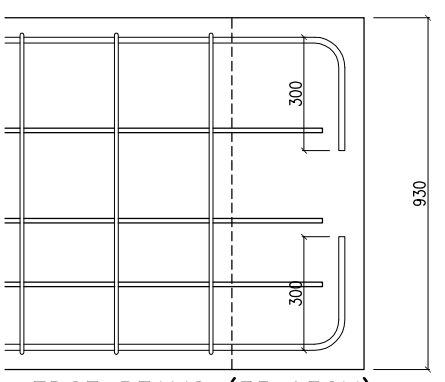
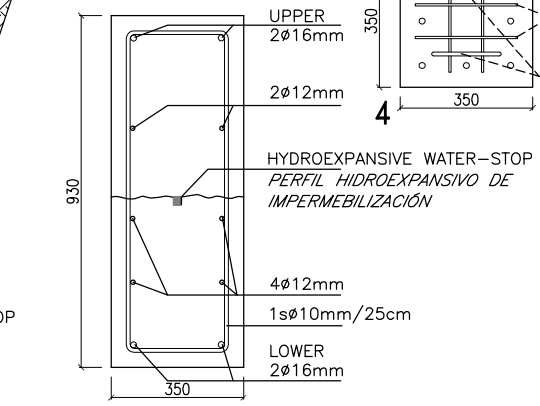
BEAM TRANSITION
TRANSICIÓN DE VIGA
 SCALE 1 : 20
 ESCALA



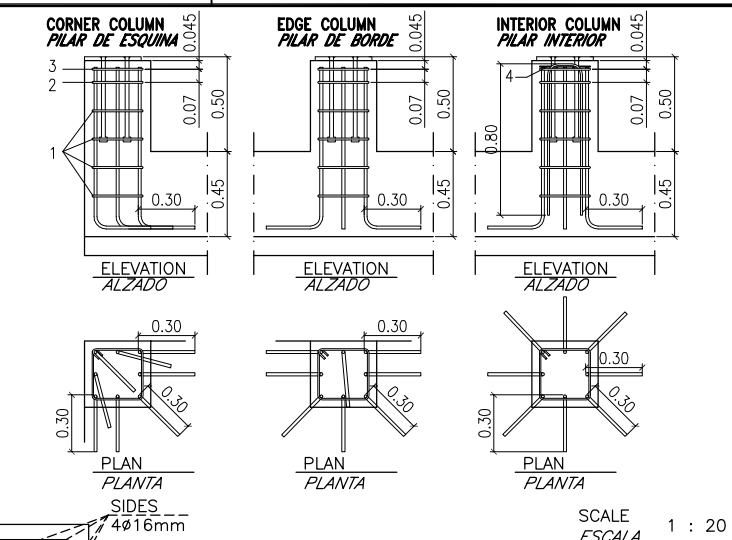
REINFORCED CONCRETE SLAB
LOSA DE HORMIGÓN ARMADO
 SCALE 1 : 10
 ESCALA



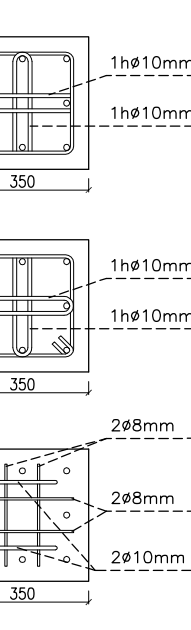
EDGE BEAMS (35x60CM)
ZUNCHO DE BORDE (35x60CM)
 SCALE 1 : 10
 ESCALA



EDGE BEAMS (35x93CM)
ZUNCHO DE BORDE (35x93CM)
 SCALE 1 : 10
 ESCALA



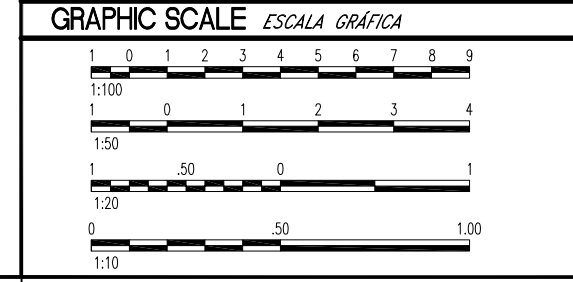
CONCRETE COLUMN
PILAR ENANO DE HORMIGÓN
 SCALE 1 : 10
 ESCALA



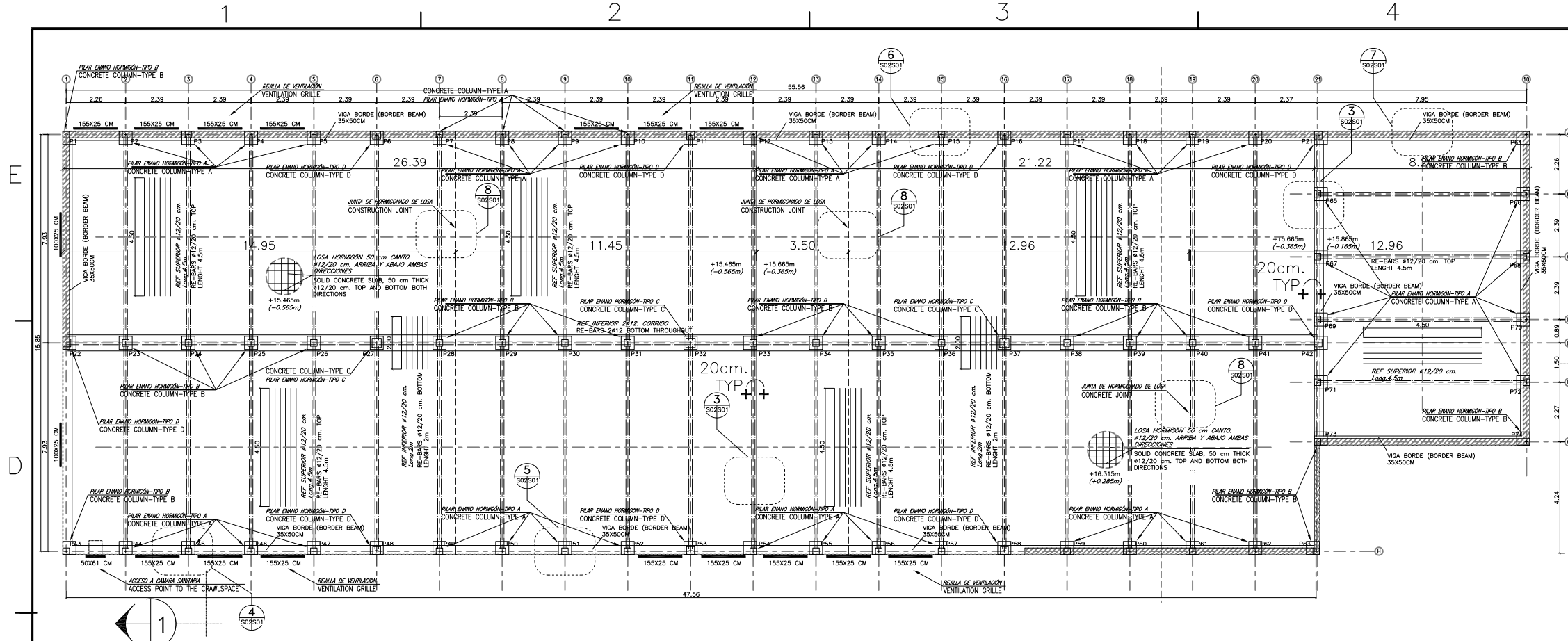
- LEGENDA**
LEYENDA
- 45 CMS THICK REINFORCED CONCRETE SLAB.
LOSA DE HORMIGÓN ARMADO e=45cm
 - 10CMS THICK LEAN CONCRETE SLAB
HORMIGÓN DE LIMPIEZA e=10cm
 - CRUSHED ROCK COMPACTED TO 95% MODIFIED PROCTOR DENSITY
GRAVA COMPACTADA AL 95% P.M.
 - LAYER OF THICK GRAVEL (Ø25-65MM) COMPACTED TO ENHANCE THE SUBGRADE
MEJORA CON CAPA DE GRAVA GRUESA (Ø25-65 MM) COMPACTADA
 - ANTI-CONTAMINATION GEOTEXTIL BARRIER OVER THE SUBGRADE
GEOTEXTIL ANTICONTAMINANTE SOBRE EL TERRENO

- GENERAL NOTES**
ESPECIFICACIONES GENERALES
- DIMENSIONS SHOWN ON GRIDLINE PLAN ARE FROM CENTERLINE TO CENTERLINE, MEASURED IN METERS.
 - FOUNDATION HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT, BY "CONCADIZ" (CONTROL DE CALIDAD CADIZ S.L.L.) REF I-CCA-2122,14
 - FOUNDATIONS HAVE BEEN DESIGNED WITH A PERMISSIBLE SOIL PRESSURE OF 70 KPa (0,07MPa) 1.50m BELOW GRADE
 - CONCRETE COLUMN ELEVATION TOLERANCE: 2MM
- 1.- LAS COTAS MOSTRADAS EN EL REPLANTEO DE PILARES ESTÁN DADAS ENTRE EJES MEDIDAS EN METROS.
- 2.- EL CÁLCULO ESTÁ BASADO EN EL ESTUDIO GEOTÉCNICO REALIZADO POR "CONCADIZ" (CONTROL DE CALIDAD CADIZ S.L.L.) REF I-CCA-2122,14.
- 3.- LA TENSIÓN ADMISIBLE DE CÁLCULO DE CIMENTACIÓN CONSIDERADA ES 70 KPa, A 1.50 METROS DE PROFUNDIDAD.
- 4.- TOLERANCIA EN LA ALTURA DE LOS PILARES DE HORMIGÓN: 2 MM

REINFORCED CONCRETE CHARACTERISTICS	CHARACTERÍSTICAS DEL HORMIGÓN ARMADO
SITUATION: FOUNDATION SLABS, COLUMNS, FOUNDATION EDGE BEAMS	SITUACIÓN: LOSAS DE CIMENTACIÓN, PILARES, VIGAS DE BORDE
CONCRETE: HA/30/B/20/IIa (Spanish EHE-08 CODE SPECIFICATIONS)	HORMIGÓN HA/30/B/20/IIa (EHE-08)
COMPRESSIVE STRENGTH : 30 MPa	RESIST. CARACTERÍSTICA : 30 MPa
CONSISTENCY: BLANDA	CONSISTENCIA: BLANDA
NOMINAL MAXIMUM SIZE OF COARSE AGGREGATE: 20MM	TAMANO MÁXIMO DE ÁRIDO: 20MM
EXPOSURE CATEGORY: IIIa	AMBIENTE: IIIa
STEEL REINFORCEMENTS B500SD	ACERO DE REFUERZO B500SD
YIELD STRESS 500 MPa	LÍMITE ELÁSTICO 500 MPa
QUALITY: WELDABLE	SOLDABLE
REINFORCEMENT COVERS (ACI 318 CH.7.7.1.2)	RECUBRIMIENTOS (ACI 318 CH.7.7.1.2)
CONCRETE EXPOSED TO EARTH OR WEATHER: 40 MM	HORMIGÓN EXPUESTO AL TERRENO O A LA INTemperie: 40 MM
EMBEDMENT AND LAP SPUCE LENGTHS ACCORDING TO ACI 318, CH12	ANCLAJE Y SOLAPE SEGÚN ACI 318 CAP.12
HOT ROLLED STEEL CHARACTERISTICS (ANCHOR PLATES, UPN PROFILES)	ACERO LAMINADO (PLACAS ANCLAJE, UPN)
YIELD STRESS 275 MPa	LÍMITE ELÁSTICO 275 MPa
COLD FORMED STEEL CHARACTERISTICS (HOLLOW PROFILES)	ACERO CONFORMADO (PERFILES HUECOS)
YIELD STRESS 235 MPa	LÍMITE ELÁSTICO 235 MPa
WELD ELECTRODE STRENGTH E60 (62,000 PSI).	RESIST. DEL ELECTRODO E60 (427Mpa)
WELD SIZES: 3MM FOR HOLLOW SECTION	GARGANTA DE SOLDADURA: 3 MM PARA PERFILES HUECOS
8MM FOR UPN PROFILES	8 MM PARA UPN

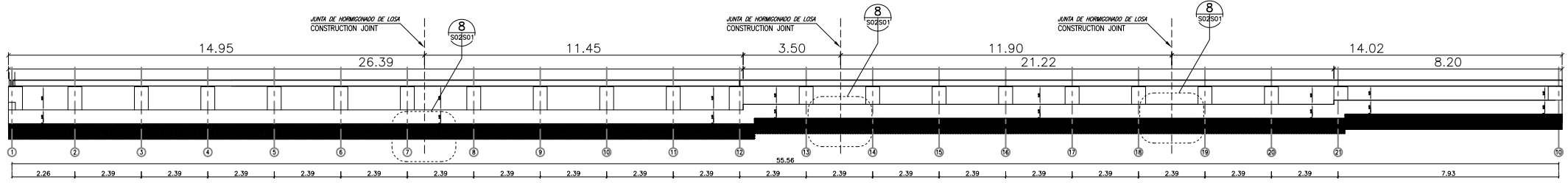


DATE	APPR
DESCRIPTION	SW
NAVFAC J. ESPINOSA L. MUÑOZ J. VALVERDE CHIEF ARCHITECT/ENGINEER	
A/E CONTRACT NO. TBD DESIGN J. ESPINOSA DRAWN L. MUÑOZ REVIEW J. VALVERDE CHIEF ARCHITECT/ENGINEER	
APPROVED FOR COMMANDER NAVFAC ACTIVITY SATISFACTORY TO DATE NOV. 2014 DES DRW CHK <<PM/DM>> BRANCH MANAGER CHIEF ENG/ARCH <<DD>>	
DEPARTMENT OF THE NAVY NAVAL STATION ROTA, SPAIN FDNF - DODDS Interim Elementary School Classroom Additions FDNF - DODDS Ampliación de Escuela Primaria con aulas temporales KINDERGARTEN FOUNDATION DESIGN DISEÑO DE CIMENTACIÓN DE GUARDERÍA	PUBLIC WORKS DEPARTMENT AS SHOWN PROJECT NO.: CONSTR. CONTR. NO.: NAVFAC DRAWING NO.: SHEET OF S01



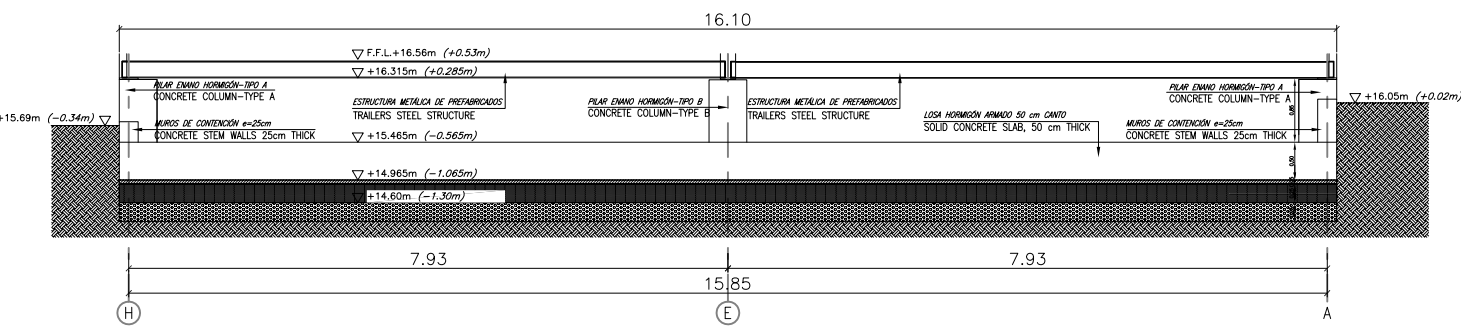
CIMENTACIÓN
FOUNDATION

SCALE: 1:100



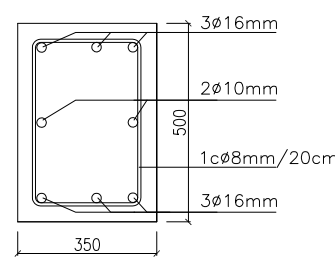
SECCIÓN LONGITUDINAL #2
LONGITUDINAL SECTION #2

SCALE: 1:100



SECCIÓN TRANSVERSAL #1
CROSS SECTION #1

SCALE: 1:50



ZUNCHO DE BORDE
BORDER BEAMS

SIN ESCALA
NOT TO SCALE

ESPECIFICACIONES GENERALES
GENERAL NOTES

- 1.-DIMENSIONS SHOWN ON GRIDLINE PLAN ARE FROM CENTERLINE TO CENTERLINE AND IN METERS.
 - 2.-FOUNDATION HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT, PREPARED BY "CONCADIZ" (CONTROL DE CALIDAD CADIZ S.L.) OF APRIL 1ST, 2014.
 - 3.-FOUNDATIONS HAVE BEEN DESIGNED TO BEAR ON SOIL CAPABLE OF SUPPORTING AN ALLOWABLE BEARING PRESSURE OF 0,6 KG/CM² AT 1.30m BELOW GRADE.
- 1.-LAS COTAS MOSTRADAS EN EL REPLANTEO DE PILARES ESTÁN DADAS ENTRE EJES Y SE INDICAN EN METROS.
- 2.-EL CÁLCULO ESTÁ BASADO EN EL ESTUDIO GEOTÉCNICO REALIZADO POR "CONCADIZ" (CONTROL DE CALIDAD CADIZ S.L.) DE 1 DE ABRIL DE 2014. LA TENSIÓN DE CÁLCULO DE CIMENTACIÓN ES 0,6KP/CM2.
- 3.-LA TENSIÓN ADMISIBLE DE CÁLCULO DE CIMENTACIÓN CONSIDERADA ES 0,6KP/CM2, TOMADA A 1.30 METROS DE PROFUNDIDAD.

LONGITUDES DE ANCLAJE Y SOLAPES ACI 318 MOORINGS LENGTH AND OVERLAPS ACI 318				
DÍAMETRO DIAMETER	LONGITUD ANCLAJE MOORINGS LENGTH (cm)	LONGITUD ANCLAJE (coherencia deficiente) MOORINGS LENGTH (cm) (deficient stickiness)	LONGITUD SOLAPE OVERLAP LENGTH (cm)	LONGITUD SOLAPE (coherencia deficiente) OVERLAP LENGTH (cm) (deficient stickiness)
#6	22	29	29	38
#8	30	39	39	50
#10	37	48	48	62
#12	45	58	58	76
#16	59	77	77	100
#20	92	120	120	156
#25	115	150	150	195

*POSICIÓN DE ADHERENCIA DEFICIENTE SI SE DISPONE ARMADURA HORIZONTAL SUPERIOR CON MÁS DE 300 mm DE HORMIGÓN POR DEBAJO

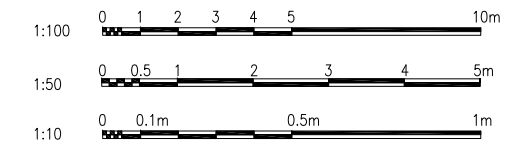
*DEFICIENT STICKINESS IF TOP REINFORCEMENT IS PLACED WITH MORE THAN 300 mm OF CONCRETE BELOW

*CIMENTACIÓN: RECUBRIMIENTO MÍNIMO 40 MM / RECUBRIMIENTO NOMINAL 50 MM

*FOUNDATION: MINIMUM OVERCOATING 40 MM / NOMINAL OVERCOATING 50 MM

MATERIAL SCHEDULE CHARACTERISTICS CUADRO DE CARACTERÍSTICAS DE LOS MATERIALES											
CONCRETE HORMIGÓN						STEEL ACERO					
CONTROL / CHARACTERISTICS CONTROL / CARACTERÍSTICAS						CONTROL / CHARACTERISTICS CONTROL / CARACTERÍSTICAS					
ITEM ELEMENTO	LEVEL NIVEL	R. RATE COEF. M. TIPO	TYPE TIPO	CONSISTENCY CONSISTENCIA	AGGREGATE S. SIZE TAM. MÁX. AGREG.	EXPOSITION EXP. AMBI.	LEVEL NIVEL	R. RATE COEF. MÍN.	TYPE TIPO	CONSISTENCY CONSISTENCIA	AGGREGATE S. SIZE TAM. MÁX. AGREG.
FOUNDATION CIMENTACIÓN	STATISTICAL ESTADÍSTICO	7 c=1.50	HA-30	PLASTIC TO SOFT (8-9 cm) PLASTIC TO HARD (8-9 cm)	25mm	IIIa	NORMAL NORMAL	7 s=1.15	B500S		

GRAPHIC SCALE
ESCALA GRÁFICA



APPR

DATE

DESCRIPTION

SYM

A/E CONTRACT NO.
N33191-13-D-0828

DESIGN
JOSE A. PLAZA

DRAWN
FERNANDO GARRIDO

REVIEW
JUAN M. CASTAÑO

CHIEF ARCHITECT/ENGINEER
JUAN M. CASTAÑO

A/E INFO

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE MARCH 2014

DESIGN
CHK

BRANCH MANAGER

CHIEF ENG/ARCH

DEPARTMENT OF THE NAVY

NAVAL STATION ROTA, SPAIN

FDNF - DODOS INTERIM HIGH SCHOOL CLASSROOM ADDITIONS

FDNF - DODOS AMPLIACIÓN DE ESCUELA SECUNDARIA CON AULAS TEMPORALES

FOUNDATION DESIGN
DISEÑO DE CIMENTACIÓN

SCALE: AS SHOWN

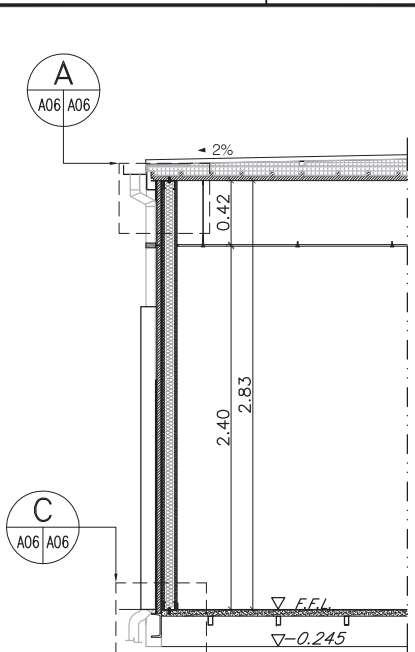
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CONSTR. CONTR. NO.

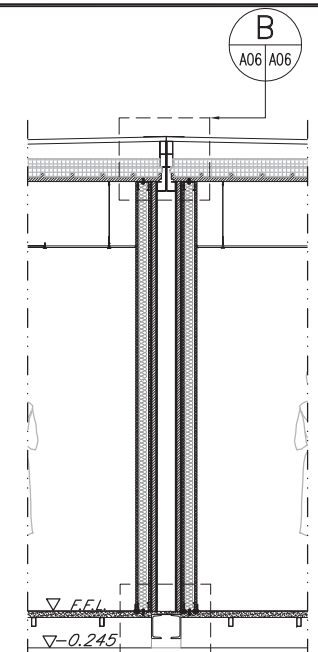
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SHEET OF

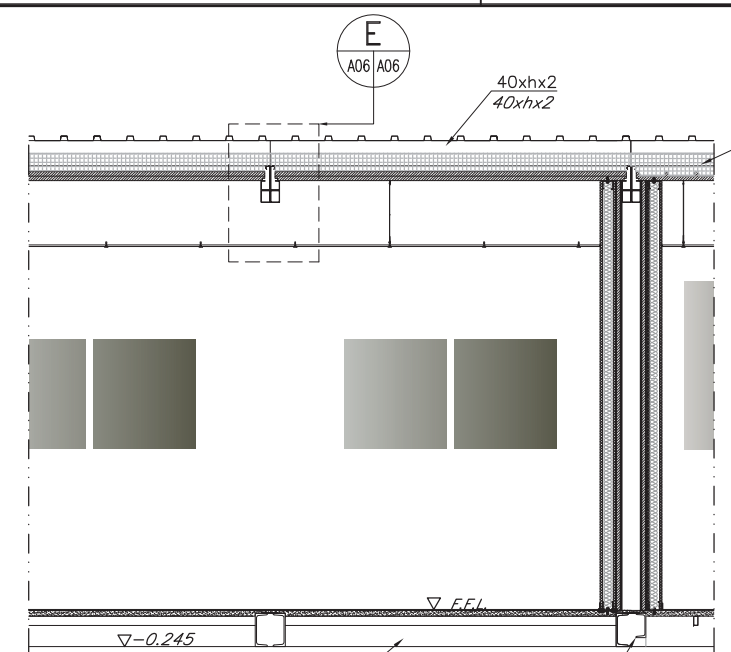
S01



SECTION
SECCIÓN
SCALE
ESCALA 1 : 25

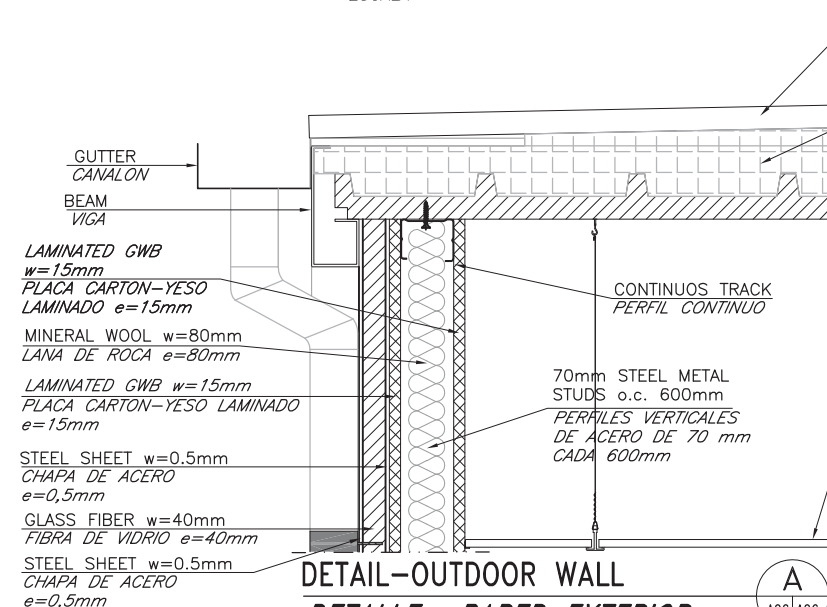


SECTION
SECCIÓN
SCALE
ESCALA 1 : 5

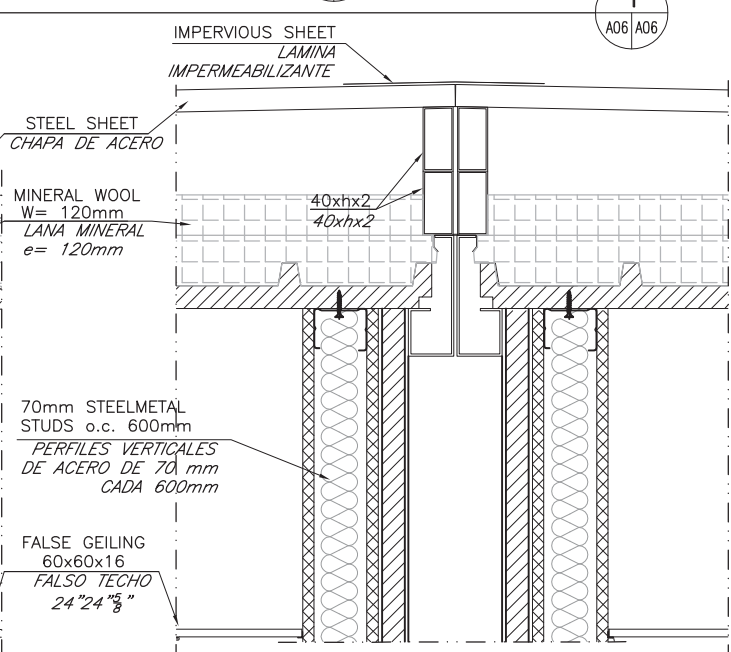


SECTION
SECCIÓN
SCALE
ESCALA 1 : 5

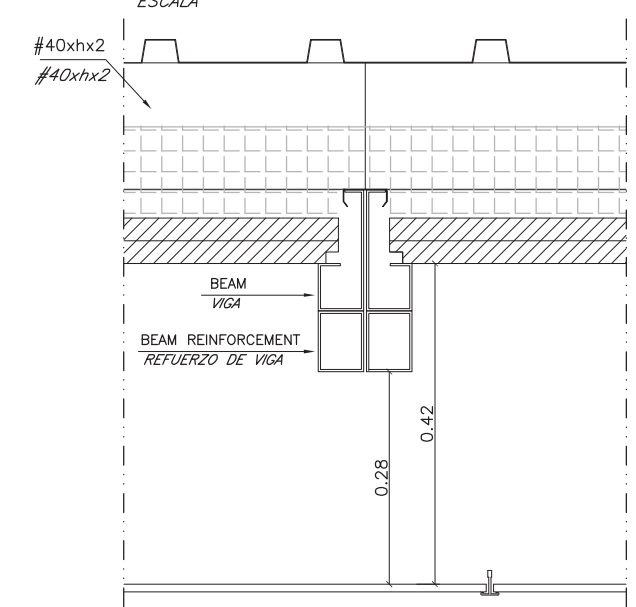
MINERAL WOOL
W= 120mm
LANA MINERAL
e= 120mm



DETAIL-OUTDOOR WALL
DETALLE- PARED EXTERIOR
SCALE
ESCALA 1 : 5

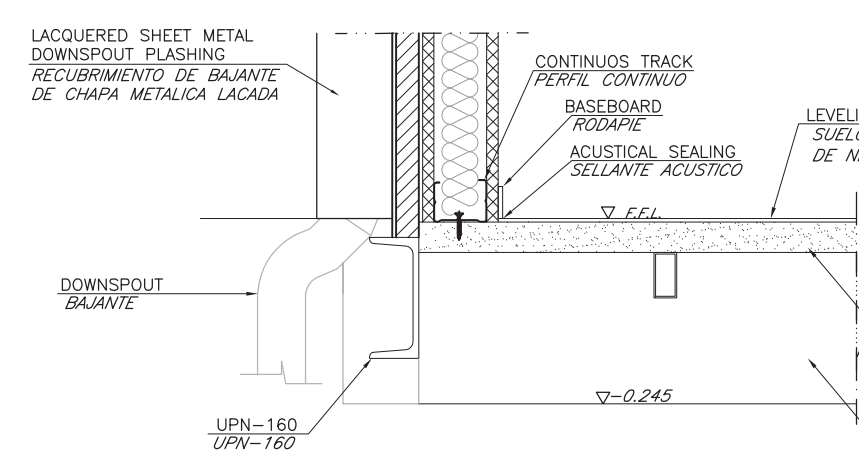


DETAIL-INTERNAL PARTITION
DETALLE-PARED INTERIOR
SCALE
ESCALA 1 : 5

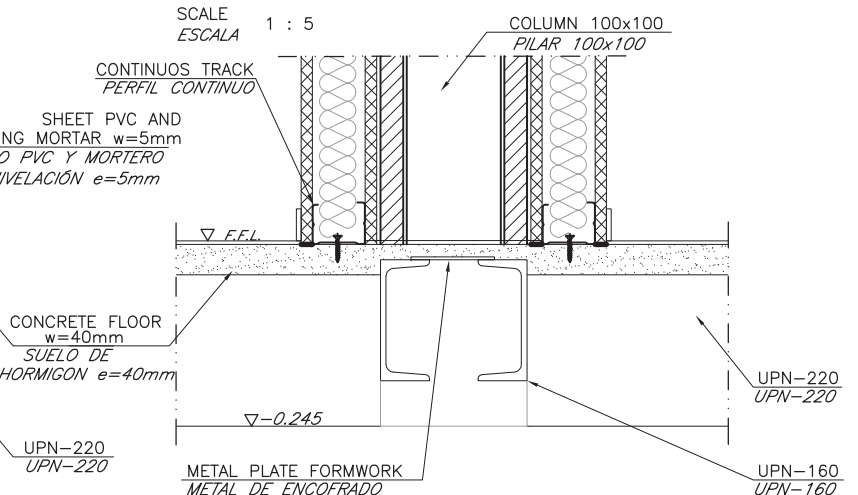


DETAIL
DETALLE
SCALE
ESCALA 1 : 5

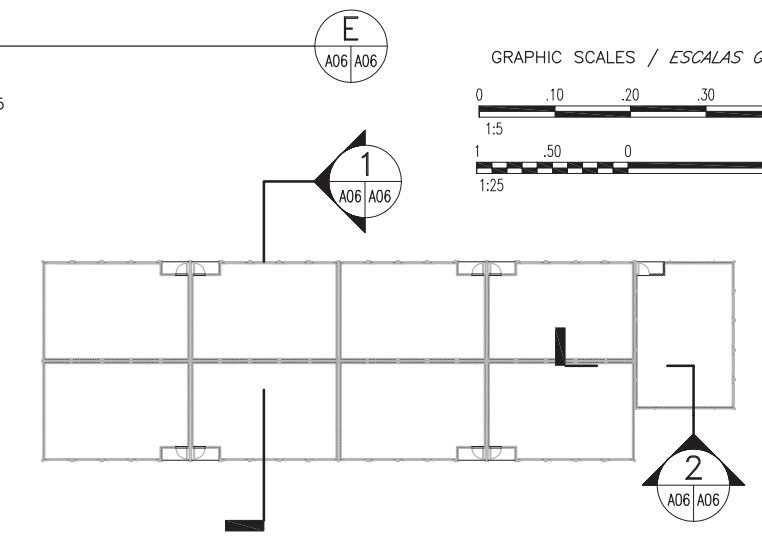
NOTE:
NOTA:
EACH #100.100.2 OR #100.100.3 COLUMN WILL JOIN AT HEAD AND AT THE BASE OF OTHER COLUMNS OR BEAMS BELONGING TO THE ATTACHED MODULES (TRAILERS) OR CLASSROOMS
CADA PILAR #100.100.2 O #100.100.3 SE UNIRÁ EN CABEZA Y EN SU BASE LOS PILARES O VIGAS DE LOS MÓDULOS O AULAS ANEXAS
EACH PURLINE HAS DIFFERENT HEIGHT TO OBTAIN A 2% SLOPE
CADA CORREA TIENE ALTURA DIFERENTE, PARA CONSEGUIR LA PENDIENTE DEL 2%
GWB= GYPSUM WALLBOARD
GWB= PLACA DE CARTÓN-YESO



DETAIL
DETALLE
SCALE
ESCALA 1 : 5



DETAIL
DETALLE
SCALE
ESCALA 1 : 5



KEY PLAN
PLANO DE REFERENCIA



APPROVED	DATE
DESCRIPTION	SW
A/E CONTRACT NO.	TBD
DESIGN	G. MURILLO
DRAWN	L. MUÑOZ
REVIEW	J. VALVERDE
CHIEF ARCHITECT/ENGINEER	
APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO DATE JUNE 2014	
DES	DRW
<<PM/DM>>	
BRANCH MANAGER	
CHIEF ENG/ARCH	
<<OD>>	
PUBLIC WORKS DEPARTMENT	
NAVAL STATION ROTA, SPAIN	
FINF - DODOS INTERIM HS CLASSROOM ADDITIONS	
FINF - DODOS AMPLIACIÓN DE AULAS TEMPORALES	
CLASSROOMS SECTIONS	
SECCIONES DE AULAS	
SCALE: AS SHOWN	
PROJECT NO.:	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	
SHEET OF	
A06	